

CLAIMS

1. A non-contact carrying device for holding and carrying a carried object in a non-contact state, the device comprising:

a carrying head having a tip surface including a gas supplying surface in which an opening of a gas supplying hole is formed, an annular holding surface projected rather than the gas supplying surface, and a gas guiding surface smoothly connecting the gas supplying surface with the holding surface;

a nozzle provided with a base portion mounted on the carrying head and a the disk portion facing to the gas supplying surface and forming an annular slit for discharging gas between the gas supplying surface and the disk portion; and

a nozzle-moving member changing width of the slit by moving the nozzle in an axial direction with respect to the carrying head.

2. The non-contact carrying device according to claim 1, wherein the nozzle moving member is a screw member mounted on the nozzle and screwed to the carrying head, and the carrying head is provided with an elastic member for applying an elastic force to the nozzle in a direction of enlarging the width of the slit.

3. The non-contact carrying device according to claim 1, wherein a sealing member is mounted on an outer circumferential portion of the disk portion so as to face to the gas supplying surface and prevents a foreign matter from intruding into the gas supplying hole when the slit is closed.